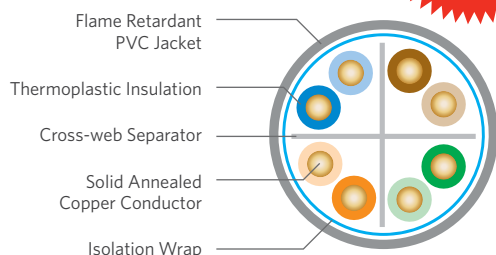


10Gain® XP Category 6A

CMR-LP/CMP-LP



SPECIFICATIONS

| | |
|-------------------------------|--|
| Pair Count | 4 |
| Conductor | Solid annealed copper |
| AWG (mm) | 23 (0.57) |
| Insulation | CMR: Thermoplastic CMP: FEP |
| Insulation Colors | Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown |
| Separator | Cross-web |
| Isolation Wrap | Proprietary construction |
| Jacket | CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC |
| Characteristic Impedance Ohms | 100 ± 15 |
| Velocity of Propagation % | CMR: 66 CMP: 71 |
| Performance Compliance | UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 Article 800, NEC (NFPA 70) HDBaseT Class A and B |
| NRTL Programs | UL Verified CAT 6A UL Listed CMR-LP (0.5) c(UL) Listed CMR UL Listed CMP-LP (0.6) c(UL) Listed CMP HDBaseT Certified |
| Sustainability | UL Certified EPD HPD Multi-Attribute Certification USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant |

PRODUCT DESCRIPTION



FIRST MANUFACTURER IN THE INDUSTRY
to offer products that contribute toward LEED!

10Gain® XP is the first Category 6A cable without a continuous shield to offer 7 dB margin over Alien Crosstalk (AXT) performance requirements in ANSI/TIA-568-C.2. Its uniquely designed Isolation Wrap contains discontinuous sections of metallized material, held in place by a polymeric layer. **10Gain XP** has a nominal 0.25" (CMP) or 0.275" (CMR) diameter that allows for higher cable density than other CAT 6A cable products. 10Gain XP is ideal for PoE applications requiring higher levels of current and simultaneously up to 10 Gigabit Ethernet. 10Gain XP is certified for HD A/V applications using HDBaseT Class A and B protocol.

APPLICATIONS

- 10BASE-T through 10GBASE-T Ethernet
- Power over Ethernet (PoE) - IEEE 802.3bt Type 1 to 4
- ATM and token ring
- Backward compatible to legacy protocols and applications
- HDBaseT Class A and B

FEATURES

- UL Certified Environmental Product Declaration (EPD)
- Health Product Declaration™ (HPD™)
- Multi-Attribute Certification by GreenCircle Certified, LLC
- Non-conductive Isolation Wrap
- Tested to 650 MHz
- Nominal 0.25 (CMP) or 0.275 (CMR) inch diameter
- CableID® alpha numeric code printed every 2 feet
- ColorTip® circuit identification system
- Tested up to 100 W in most severe temperature conditions in a bundle of 100 cables
- HDBaseT Class A and B certified
- UL LP listed
- Temperature cable rating: 75°C for CMR and 90°C for CMP

BENEFITS

- Contributes toward 1 LEED credit under the Material and Resources credit (MRC)
- Contributes toward 1 LEED credit under the MRC
- Offers an overview of the sustainability of a product, its packaging and manufacturing
- 7 dB AXT performance without grounding or bonding
- Assures ample bandwidth headroom
- Higher cable density, smaller bend radius and lowers installation costs
- Easily identifies both ends of a cable run without the need to separately label or tone the cable
- Easily identify conductor mates even in low-light environments
- Offers 82% power efficiency and lowest temperature increase inside a bundle
- Ideal for any A/V application up to 100m channel
- Third-party assurance of product safety in high-heat and high-power applications
- Temperature rating of the insulation AND of the jacket provide improved cable lifespan despite high-heat and high-power applications

PART NUMBERS AND PHYSICAL CHARACTERISTICS

| Listing | Part Number ¹ | Nominal Diameter in (mm) | Approx. Weight lbs/kft (kg/km) | Package | Packages per Pallet |
|---------|--------------------------|--------------------------|--------------------------------|---------------------|---------------------|
| CMR | 6H-246-xA | 0.275 (6.99) | 29 (43) | 1,000' BrakeBox® | 12 |
| CMR | 6H-272-xA | 0.275 (6.99) | 29 (43) | 1,000' Plywood reel | 12 |
| CMP | 6H-246-xB | 0.25 (6.35) | 35 (52) | 1,000' BrakeBox | 12 |
| CMP | 6H-272-xB | 0.25 (6.35) | 35 (52) | 1,000' Plywood reel | 12 |

JACKET COLORS

¹Replace "x" with: Blue = 2 Gray = 3 White = 4 Green = 5 Yellow = 6 Purple = 7 Red = 9 Orange = D Black = E

ELECTRICAL SPECIFICATIONS

| Frequency MHz | Insertion Loss @ 20°C Maximum dB/100 m | | NEXT Minimum dB/100 m | | ACR Minimum dB/100 m | | PSNEXT Minimum dB/100 m | | PSACR Minimum dB/100 m | |
|------------------|--|---------|--------------------------|---------|-------------------------|---------|----------------------------|---------|---------------------------|---------|
| | Guaranteed | Typical | Guaranteed | Typical | Guaranteed | Typical | Guaranteed | Typical | Guaranteed | Typical |
| 1 | 2.1 | 2.0 | 74.3 | 78.3 | 72.2 | 77.3 | 72.3 | 77.3 | 70.2 | 76.3 |
| 4 | 3.8 | 3.7 | 65.3 | 69.3 | 61.5 | 66.6 | 63.3 | 68.3 | 59.5 | 65.6 |
| 8 | 5.3 | 5.1 | 60.8 | 64.8 | 55.4 | 60.6 | 58.8 | 63.8 | 53.4 | 59.6 |
| 10 | 5.9 | 5.7 | 59.3 | 63.3 | 53.4 | 58.6 | 57.3 | 62.3 | 51.4 | 57.6 |
| 16 | 7.5 | 7.3 | 56.2 | 60.2 | 48.8 | 54.0 | 54.2 | 59.2 | 46.8 | 53.0 |
| 20 | 8.4 | 8.1 | 54.8 | 58.8 | 46.4 | 51.7 | 52.8 | 57.8 | 44.4 | 51.2 |
| 25 | 9.4 | 9.1 | 53.3 | 57.3 | 44.0 | 49.7 | 51.3 | 56.3 | 42.0 | 49.0 |
| 31.25 | 10.5 | 10.2 | 51.9 | 55.9 | 41.4 | 47.2 | 49.9 | 54.9 | 39.4 | 46.7 |
| 62.5 | 15.0 | 14.4 | 47.4 | 51.4 | 32.4 | 39.0 | 45.4 | 50.4 | 30.4 | 38.4 |
| 100 | 19.1 | 18.4 | 44.3 | 48.3 | 25.2 | 32.4 | 42.3 | 47.3 | 23.2 | 31.7 |
| 200 | 27.6 | 26.5 | 39.8 | 43.8 | 12.2 | 20.1 | 37.8 | 42.8 | 10.2 | 19.5 |
| 250 | 31.1 | 29.8 | 38.3 | 42.3 | 7.3 | 15.5 | 36.3 | 41.3 | 5.3 | 15.1 |
| 300 | 34.3 | 32.9 | 37.1 | 41.1 | 2.9 | 11.4 | 35.1 | 40.1 | 0.9 | 10.8 |
| 400 | 40.1 | 38.3 | 35.3 | 39.3 | | 4.6 | 33.3 | 38.3 | | 3.6 |
| 500 | 45.3 | 43.0 | 33.8 | 37.8 | | | 31.8 | 36.8 | | |
| 600 | | 47.5 | | 36.4 | | | | 35.6 | | |
| 650 | | 49.7 | | 35.9 | | | | 35.1 | | |
| 700 | | 51.4 | | 35.5 | | | | 34.6 | | |
| 750 | | 53.3 | | 35.1 | | | | 34.2 | | |

| Frequency MHz | Return Loss Minimum dB/100 m | | ACRF Minimum dB/100 m | | PSACRF Minimum dB/100 m | | PSANEXT Minimum dB/100 m | | PSAACRF Minimum dB/100 m | |
|------------------|---------------------------------|---------|--------------------------|---------|----------------------------|---------|-----------------------------|---------|-----------------------------|---------|
| | Guaranteed | Typical | Guaranteed | Typical | Guaranteed | Typical | Guaranteed | Typical | Guaranteed | Typical |
| 1 | 20.0 | 22.0 | 67.8 | 73.8 | 64.8 | 70.8 | 74.0 | 96.5 | 74.0 | 80.0 |
| 4 | 23.0 | 25.0 | 55.8 | 61.8 | 52.8 | 58.8 | 74.0 | 87.5 | 73.2 | 79.2 |
| 8 | 24.5 | 26.5 | 49.7 | 55.7 | 46.7 | 52.7 | 74.0 | 83.0 | 67.1 | 73.1 |
| 10 | 25.0 | 27.0 | 47.8 | 53.8 | 44.8 | 50.8 | 74.0 | 81.5 | 65.2 | 71.2 |
| 16 | 25.0 | 27.0 | 43.7 | 49.7 | 40.7 | 46.7 | 74.0 | 80.0 | 61.1 | 67.1 |
| 20 | 25.0 | 27.0 | 41.8 | 47.8 | 38.8 | 44.8 | 74.0 | 80.0 | 59.2 | 65.2 |
| 25 | 24.3 | 26.3 | 39.8 | 45.8 | 36.8 | 42.8 | 74.0 | 80.0 | 57.2 | 63.2 |
| 31.25 | 23.6 | 25.6 | 37.9 | 43.9 | 34.9 | 40.9 | 74.0 | 80.0 | 55.3 | 61.3 |
| 62.5 | 21.5 | 23.5 | 31.9 | 37.9 | 28.9 | 34.9 | 72.6 | 78.6 | 49.3 | 55.3 |
| 100 | 20.1 | 22.1 | 27.8 | 33.8 | 24.8 | 30.8 | 69.5 | 75.5 | 45.2 | 51.2 |
| 200 | 18.0 | 20.0 | 21.8 | 27.8 | 18.8 | 24.8 | 65.0 | 71.0 | 39.2 | 45.2 |
| 250 | 17.3 | 19.3 | 19.8 | 25.8 | 16.8 | 22.8 | 63.5 | 69.5 | 37.2 | 43.2 |
| 300 | 16.8 | 18.8 | 18.3 | 24.3 | 15.3 | 21.3 | 62.3 | 68.3 | 35.7 | 41.7 |
| 400 | 15.9 | 17.9 | 15.8 | 21.8 | 12.8 | 18.8 | 60.5 | 66.5 | 34.2 | 39.2 |
| 500 | 15.2 | 17.2 | 13.8 | 19.8 | 10.8 | 16.8 | 59.0 | 65.0 | 31.2 | 37.2 |
| 600 | | 16.7 | | 18.2 | | 15.2 | | 63.8 | | 35.6 |
| 650 | | 16.4 | | 17.5 | | 14.5 | | 63.3 | | 34.9 |
| 700 | | 16.2 | | 16.9 | | 13.9 | | | | |
| 750 | | 16.0 | | 16.3 | | 13.3 | | | | |

SUSTAINABILITY LEADERSHIP



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